

CLAIMS

1. A spring-loaded compression cable grab for attaching a wire rope cable to a fixed object comprising:

- 5 a) a hollow cylindrical chuck having a first end and a second end, with a tapered socket formed within the hollow between the first end and the second end,
- b) a pair of bifurcated arms attached onto said chuck for attachment of the spring-loaded compression cable grab,
- c) a collet slideably disposed within the tapered socket of the hollow chuck, with
10 said collet having a bore within an inner diameter compatible with the wire rope cable,
- d) a hollow chuck cap attached to the chuck second end,
- e) a compression spring disposed within the chuck between the collet and the chuck cap, urging the collet into the tapered socket such that after the wire rope cable has
15 been inserted freely into the chuck's first end, the collet firmly grips the wire rope cable on the bore in the collet when a cable is pulled in an opposite direction, and
- f) a hollow bolt threadably attached to the chuck first end, when said hollow bolt is rotated inward against the collet, the collet is forced away from the tapered socket, thus releasing the grip for removal of the cable grab from the wire rope cable.

20 2. The spring-loaded compression cable grab as recited in claim 1 wherein said hollow cylindrical chuck further comprises internal threads on the first end and internal threads on the second end for threadably receiving said hollow bolt in the first end and threadably receiving said hollow chuck cap in the second end.

25 3. The spring-loaded compression cable grab as recited in claim 1 wherein said hollow cylindrical chuck further comprises a cylindrical configuration having an enlarged circular portion on the first end, with the circular portion having a pair of opposed flats configured to receive said bifurcated arms.

4. The spring-loaded compression cable grab as recited in claim 1 wherein said pair of bifurcated arms further comprise a weld joint on a first end for attachment to said hollow cylindrical chuck.

5 5. The spring-loaded compression cable grab as recited in claim 4 wherein said bifurcated arms have a shape that is offset to contiguously engage each arm on a second end opposite the weld joint.

10 6. The spring-loaded compression cable grab as recited in claim 5 wherein said pair of bifurcated arms having a hole through both arms at a second end for attachment to a fixed object.

15 7. The spring-loaded compression cable grab as recited in claim 1 wherein said collet further comprises a plurality of tapered segments retained with an o-ring on a largest end for gripping a cable contained by the bore formed within the segments.

8. The spring-loaded compression cable grab as recited in claim 7 wherein said collet tapered segments further comprise at least three discrete segments.

20 9. The spring-loaded compression cable grab as recited in claim 1 wherein said hollow chuck cap further comprises a set of external threads for attachment to said chuck.

25 10. The spring-loaded compression cable grab as recited in claim 9 wherein said chuck cap further comprises a knurled surface on an end opposite the external threads.

11. The spring-loaded compression cable grab as recited in claim 1 wherein said compression spring is formed of a material selected from the group consisting of stainless steel and spring steel.

12. The spring-loaded compression cable grab as recited in claim 1 wherein said hollow bolt further comprises a hex head on one end and a plurality of external threads on the other, with the threads compatible with the first end hollow in the cylindrical chuck.

5 13. The spring-loaded compression cable grab as recited in claim 1 further comprising an all steel construction.

14. A spring-loaded compression cable grab for attaching a wire rope cable to a fixed object comprising:

10 a) a hollow cylindrical chuck having a tapered socket formed within, and a pair of bifurcated arms attached to an outer surface of said chuck,

 b) a collet slideably disposed within the tapered socket,

 e) a compression spring disposed within the chuck for urging the collet into the tapered socket such that after the wire rope cable has been inserted into the chuck, the
15 collet firmly grips the wire rope cable when the cable is pulled in an opposite direction, and

 d) a hollow bolt attached to the chuck for cable removal by rotating said bolt inward, thus forcing the collet away from the tapered socket which releases the grip on the wire rope cable.

20

15 15. A spring-loaded compression cable grab for attaching a wire rope cable to a fixed object comprising a chuck having a socket formed within, a collet slideably disposed within the socket, a chuck cap, a compression spring disposed within the chuck between the collet and the chuck cap for urging the collet into the socket such that the
25 collet firmly grips a wire rope cable, and a hollow bolt attached to the chuck for cable removal by rotating said bolt inward, thus forcing the collet away from the tapered socket which releases the grip on the wire rope cable.